

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/38636

A. CLASSIFICATION OF SUBJECT MATTER		
IPC(7) : GOIN 1/10 US CL : 73/863.71,864.63,864.67		
According to International Patent Classification (IPO or to both national classification and IPC)		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) U.S. : 73/863.71,864.63,864.67, 863.31, 863.52, 864.65,864.65		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,600,075 A (PETERSON) 04 February 1997 (04.02. 1997), fig.1 and col. 3, lines 18 et seq.	1-4
X	US 5,361,643 A (BOYDE ET AL) 08 November 1994 (08. 11. 1994), Fig. 1.	1-4
X	US 4,037,477 A (NISKIN) 26 July 1977 (26.07. 1977), figs. 1-25.	1-4 and 6-18
X	US 3,017,772 (WRIGHT) 23 January 1962 (23.01. 1962), Fig.1 .	1-5
X,P	US 2004/0123679 A1 (COLEMAN ET AL) 01 July 2004 (01.07.2004), Figs. 1-12.	1-18
X,P	US 2004/0099068 A1 (WELKER) 27 May 2004 (27.05.2004), Figs. 1-3.	1-5
D Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
Special categories of cited document:		
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
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T " document published prior to the international filing date but later than the priority date claimed		
Date of the actual completion of the international search 16 August 2005 (16.08.2005)	Date of mailing of the international search report JJ OCT 2005	
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer <i>Hezron E. Williams</i> Hezron E. Williams Telephone No. 571-272-1750	